## Exhibit 2

#### Cisco Arista snmp-server enable traps Usage Guidelines SNMP notifications can be sent as traps or inform requests. This command enables both traps and inform requests for the specified notification types. ATM notifications are defined in the CISCO-IETF-ATM2-PVCTRAP-MIB.my file, available from the Cisco FTP site at ftp://ftp.cisco.com/pub/mibs/v2/ The snmp-server enable traps command enables the transmission of Simple Network Management ATM PVC failure notifications are sent when a PVC on an ATM interface fails or leaves the UP Protocol (SNMP) notifications as traps or inform requests. This command enables both traps and inform requests for the specified notification types. The snmp-server host command specifies the notification operational state. Only one trap is generated per hardware interface, within the specified interval defined by the interval keyword (stored as the atmIntfPvcNotificationInterval in the MIB). If other PVCs on the same interface go DOWN during this interval, traps are generated and held until the fail interval has elapsed. When the interval has elapsed, the traps are sent if the PVCs are still DOWN. Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1918 No notifications are generated when a PVC returns to the UP state after having been in the DOWN state. If you need to detect the recovery of PVCs, you must use the SNMP management application to regularly poll The snmp-server enable traps atm pvccommand is used in conjunction with the snmp-server hostcommand. Use the sump-server host command to specify which host or hosts receive SNMP notifications. To send notifications, you must configure at least one snmp-server hostcommand. Cisco IOS Asynchronous Transfer Mode Command Reference (2011), at 535 Router# show interfaces atm 0/0/0 ATM0/0/0 is up, line protocol is up Hardware is cyBus ATM These commands display interface counters, clear the counters, then display the counters again. Internet address is 10.1.1.1/24 switch#show interfaces ethernet 1 MTU 4470 bytes, sub MTU 4470, BW 156250 Kbit, DLY 80 usec, rely 255/255, load 1/255 Ethernet1 is up, line protocol is up (connected) Encapsulation ATM, loopback not set, keepalive set (10 sec) Hardware is Ethernet, address is 001c.7302.2fff (bia 001c.7302.2fff) Encapsulation(s): AAL5, PVC mode MTU 9212 bytes, BW 10000000 Kbit 256 TX buffers, 256 RX buffers, Full-duplex, 10Gb/s, auto negotiation: off 2048 maximum active VCs, 1024 VCs per VP, 1 current VCCs Last clearing of "show interface" counters never VC idle disconnect time: 300 seconds 5 minutes input rate 01 bps (0.0% with framing), 0 packets/sec Last input never, output 00:00:05, output hang never 5 minutes output rate 0 bps (0.0% with framing), 0 packets/sec Last clearing of "show interface" counters never 2285370854005 packets input, 225028582832583 bytes Queueing strategy: fifo Received 29769609741 broadcasts, 3073437605 multicast Output queue 0/40, 0 drops; input queue 0/75, 0 drops 113 runts, 1 giants 5 minute input rate 0 bits/sec, 1 packets/sec 118 input errors, 117 CRC, 0 alignment, 18 symbol 27511409 PAUSE input 5 minute output rate 5 packets input, 560 bytes, 0 no buffer 335031607678 packets output, 27845413138330 bytes Sent 14282316688 broadcasts, 54045824072 multicast Received 0 broadcasts, 0 runts, 0 giants 108 output errors, 0 collisions 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 0 late collision, 0 deferred 5 packets output, 560 bytes, 0 underruns 0 PAUSE output 0 output errors, 0 collisions, 0 interface resets 0 output buffer failures, 0 output buffers swapped out Cisco IOS Asynchronous Transfer Mode Command Reference (2011), Arista Configuration Guide v. 4.13.6F (4/14/2014), at 637 at 476

	Cisco	Arista
show vrrp  Cisco IOS II	To display a brief or detailed status of one or all configured Virtual Router Redundancy Protocol (VRRP) groups on the router, use the show vrrp command in privileged EXEC mode.  show vrrp [all   brief]  P Application Services Command Reference (2011), at 71	19.2.3.2 Verify VRRP IPv6 Configurations Use the following commands to display the VRRP configurations and status.  Show VRRP Group The show vrrp command displays the status of configured Virtual Router Redundancy Protocol (VRRP groups on a specified interface.  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 879
	Use the ip multicast multipath command to enable load splitting of IP multicast traffic across multiple equal-cost paths.  If two or more equal-cost paths from a source are available, unicast traffic will be load split across those paths. However, by default, multicast traffic is not load split across multiple equal-cost paths. In general, multicast traffic flows down from the reverse path forwarding (RPF) neighbor. According to the Protocol Independent Multicast (PIM) specifications, this neighbor must have the highest IP address if more than one neighbor has the same metric.  Configuring load splitting with the ip multicast multipath command causes the system to load split multicast traffic across multiple equal-cost paths based on source address using the S-hash algorithm. When the ip multicast multipath command is configured and multiple equal-cost paths exist, the path in which multicast traffic will travel is selected based on the source IP address. Multicast traffic from different sources will be load split across the different equal-cost paths. Load splitting will not occur across equal-cost paths for multicast traffic from the same source sent to different multicast groups.  P Multicast Command Reference (2011), at 293	23.3.2 Equal Cost Multipath Routing (ECMP) and Load Sharing  Multiple routes that have identical destinations and administrative distances comprise an Equal Cost Multi-Path (ECMP) route. The switch attempts to spread traffic to all ECMP route paths equally.  If two or more equal-cost paths from a source are available, unicast traffic is load split across those paths. By default, multicast traffic is not load split. Multicast traffic generally flows from the reverse path forwarding (RPF) neighbor and, according to Protocol Independent Multicast (PIM) specifications, the neighbor with the highest IP address has precedence when multiple neighbors have the same metric.  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1191
Usage Guidelines Note  Cisco IOS II	Use the the the the the the the the the th	Multicast Boundary Configuration  The multicast boundary specifies subnets where source traffic entering an interface is filtered to prevent the creation of mroute states on the interface. The interface is not included in the outgoing interface list (OIL). Multicast pim, igmp or data packets are not allowed to flow across the boundary from either direction. The boundary facilitates the use of a multicast group address in different administrative domains.  The ip multicast boundary command configures the multicast boundary. The multicast boundary can be specified through multiple IPv4 subnets or one standard IPv4 ACL.  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1704

	Cisco	Arista	
Usage Guidelines  Cisco IOS II	Enabling PIM on an interface also enables Internet Group Management Protocol (IGMP) operation on that interface. An interface can be configured to be in dense mode, sparse mode, or sparse-dense mode. The mode describes how the Cisco IOS software populates its multicast routing table and how the software forwards multicast packets it receives from its directly connected LANs. Dense mode interfaces are always added to the table when the multicast routing table is populated. Sparse mode interfaces are added to the table only when periodic join messages are received from downstream routers, or there is a directly connected member on the interface.  P Multicast Command Reference (2008), at IMC-233–34	S3.3.1 Enabling IGMP  Enabling PIM on an interface also enables IGMP on that interface. When the switch populates the multicast routing table interfaces are added to the table only when periodic join messages are received from downstream routers, or when there is a directly connected member on the interface.  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1726	
Usage Guidelines  Cisco IOS II	SNMP notifications can be sent as traps or inform requests. This command enables both traps and inform requests for the specified notification types. PIM notifications are defined in the CISCO-PIM-MIB.my and PIM-MIB.my files, available from Cisco.com at http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml.  P Multicast Command Reference (2011), at 742	SNMP Commands  Chapter 37 SNMP  Snmp-server enable traps  The snmp-server enable traps command enables the transmission of Simple Network Management Protocol (SNMP) notifications is traps or inform requests. This command enables both traps and inform requests for the specified notification types. The snmp-server host command specifies the notification type (traps or informs). Sending notifications requires at least one snmp-server host command.	
Usage Guidelines	The local proxy ARP feature allows the Multilayer Switching Feature Card (MSFC) to respond to ARP	Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1918	
Osage duidennes	requests for IP addresses within a subnet where normally no routing is required. With the local proxy ARP feature enabled, the MSFC responds to all ARP requests for IP addresses within the subnet and forwards all traffic between hosts in the subnet. Use this feature only on subnets where hosts are intentionally prevented from communicating directly to the Catalyst 6500 series switch on which they are connected.  Before the local proxy ARP feature can be used, the IP proxy ARP feature must be enabled. The IP proxy ARP feature is enabled by default.	ip local-proxy-arp  The ip local-proxy-arp command enables local proxy ARP (Address Resolution Protocol) on the configuration mode interface. Local proxy ARP programs the switch to respond to ARP requests for IP addresses within a subnet where routing is not normally required. A typical local proxy arp application is supporting isolated private VLANs that communicate with each other by routing packets.	
Cisco IOS II	P Addressing Services Command Reference (2011), at 394	Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1231	
Usage Guidelines	IP uses a 32-bit mask that indicates which address bits belong to the network and subnetwork fields, and which bits belong to the host field. This is called a <i>netmask</i> . By default, <b>show</b> commands display an IP address and then its netmask in dotted decimal notation. For example, a subnet would be displayed as 10.108.11.0 255.255.255.0.	SUBNET_SIZE this functions as a sanity check to ensure it is not a network or broadcast network. Options include:  — netmask ipv4_addr The network mask that indicates which address bits belong to the network and subnetwork fields and which bits belong to the host field. Specify the netmask of the network to which the pool addresses belong (dotted decimal notation).	
Cisco IOS II	P Addressing Services Command Reference (2011), at 452	Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1233	

Cisco	Arista
Route Target Extended Community Attribute  The poute target (RT) extended community attribute is configured with the rt keyword. This attribute is used to identify a set of sites and VRFs that may receive routes that are tagged with the configured route target. Configuring the route target extended attribute with a route allows that route to be placed in the per-site forwarding tables that are used for routing traffic that is received from corresponding sites.  Site of Origin Extended Community Attribute  The site of origin (SOO) extended community attribute is configured with the soo keyword. This attribute uniquely identifies the site from which the provider edge (PE) router learned the route. All routes learned from a particular site must be assigned the same site of origin extended community attribute, regardless if a site is connected to a single PE router or multiple PE routers. Configuring this attribute prevents routing loops from occurring when a site is multihomed. The SOO extended community attribute is configured on the interface and is propagated into BGP through redistribution. The SOO should not be configured for stub sites or sites that are not multihomed.  IP Extended Community-List Configuration Mode  Named and numbered extended community lists can be configured in IP Extended community-list configuration mode. To enter IP Extended community-list configuration mode, enter the pextended community-list command with either the expanded or standard keyword followed by the extended community list name. This configuration mode supports all of the functions that are available in global configuration mode. In addition, you can perform the following operations:  Cisco IOS IP Routing Protocols Command Reference, Release 12.4 (2005), at IRP-118	ip extcommunity-list expanded  The ip extcommunity-list expanded command creates an extended community list to configure Virtual Private Network (VPN) route filtering. Extended community attributes filter routes for virtual routing and forwarding instances (VRFs). The command uses regular expressions to name the communities specified by the list.  Route Target (rt) attribute identifies a set of sites and VRFs that may receive routes that are tagged with the configured route target. Configuring the route target extended attribute with a route allows that route to be placed in the per-site forwarding tables that route traffic received from corresponding sites.  Site of Origin (soo) attribute uniquely identifies the site from which the provider edge (PE) router learned the route. All routes learned from a specific site must be assigned the same site of origin attribute whether a site is connected to a single PE router or multiple PE routers. Configuring this attribute prevents the creation of routing loops when a site is multihomed. The SOO extended community attribute is configured on the interface and is propagated into BGP through redistribution. The SOO should not be configured for stub sites or sites that are not multihomed.  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1540
Extended community attributes are used to configure, filter, and identify routes for virtual routing and forwarding instances (VRFs) and Multiprotocol Label Switching (MPLS) Virtual Private Networks (VPNs).  The match extrommunity command is used to configure match clauses that use extended community attributes in route maps. All of the standard rules of match and set clauses apply to the configuration of extended community attributes.  Cisco IOS IP Routing: EIGRP Command Reference (2011), at 92	BGP extended communities configure, filter, and identify routes for virtual routing, forwarding instances (VRFs), and Multiprotocol Label Switching (MPLs) Virtual Private Networks (VPNs).  Extended community clauses provide route target and site of origin parameter options:  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1502

Cisco	Arista
Expanded Community Lists  Expanded community lists are used to filter communities using a regular expression. Regular expressions are used to configure patterns to match community attributes. The order for matching using the * or + character is longest construct first. Nested constructs are matched from the outside in  Concatenated constructs are matched beginning at the left side. If a regular expression can match two different parts of an input string, it will match the earliest part first. For more information about configuring regular expressions, see the Regular Expressions appendix of the Cisco IOS Terminal Services Configuration Guide.  Cisco IOS IP Routing Protocols Command Reference, Release 12.4 (2005), at IRP-113–14	Chapter 3 Command-Line Interface  Processing Commands  TRYS TRY 23 21 TRY
Router# show ip route  Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP     D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area     N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2     E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP     i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2     ia - IS-IS inter area, * - candidate default, U - per-user static route     0 - ODR, P - periodic downloaded static route  Gateway of last resort is not set	Examples   This command displays IP routes learned through BGP.
Cisco IOS IP Routing Protocols Command Reference, Release 12.4 (2005), at IP2R-553	### 170.53.0.35/32 [1/0] via 170.44.254.18 via 170.44.254.13 via 170.44.254.67 via 170.44.254.35 via 170.44.254.98   ##################################

## Cisco Arista **Usage Guidelines** clear ip bgp The clear ip bgp command can be used to initiate a hard reset or soft reconfiguration A hard reset tears down and rebuilds the specified peering sessions and rebuilds the BGP routing tables. A soft reconfiguration uses stored prefix information to reconfigure and activate BGP routing tables without The clear ip bgp command removes BGP IPv4 learned routes from the routing table, reads all routes tearing down existing peering sessions. Soft reconfiguration uses stored update information at the cost from designated peers, and sends routes to those peers as required. of additional memory for storing the updates, to allow you to apply new BGP policy without disrupting the network. Soft reconfiguration can be configured for inbound or outbound sessions. a hard reset tears down and rebuilds the peering sessions and rebuilds BGP routing tables. a soft reset uses stored prefix information to reconfigure and activate BGP routing tables without tearing down existing peering sessions. Cisco IOS IP Routing Protocols Command Reference, Release 12.4 Soft resets use stored update information to apply new BGP policy without disrupting the network. (2005), at IRP-69 Routes that are read or sent are processed through modified route maps or AS-path access lists. The command can also clear the switch's BGP sessions with its peers. Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1527 max-metric router-Isa Chapter 25 Open Shortest Path First - Version 2 OSPFv2 Commands max-metric router-Isa (OSPFv2) To configure a router that is running the Open Shortest Path First (OSPF) protocol to advertise a maximum metric so that other routers do not prefer the router as an intermediate hop in their shortest path first (SPF) calculations, use the max-metric router-lsa command in router configuration mode. To The max-metric router-lsa command allows the OSPF protocol to advertise a maximum metric so that disable the advertisement of a maximum metric, use the no form of this command. other routers do not prefer the router as an intermediate hop in their SPF calculations. The no max-metric router-lsa and default max-metric router-lsa commands disable the advertisement max-metric router-lsa [on-startup {seconds | wait-for-bgp}] of a maximum metric. no max-metric router-lsa [on-startup {seconds | wait-for-bgp}] Command Mode Router-OSPF Configuration Command Syntax Cisco IOS IP Routing Protocols Command Reference, Release 12.4 max-metric router-lsa [EXTERNAL] [STUB] [STARTUP] [SUMMARY] no max-metric router-lsa [EXTERNAL] [STUB] [STARTUP] [SUMMARY] (2005), at IP2R-591 default max-metric router-lsa [EXTERNAL] [STUB] [STARTUP] [SUMMARY] All parameters can be placed in any order. Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1389

Cisco	Arista
Imk-state-id   (Optional) Displays all the LSAs of the specified router. If no IP address is included, the information is about the local router itself (in this case, the same as self-originate).    Imk-state-id   (Optional) Portion of the Internet environment that is being described by the advertisement. The value entered depends on the advertisement's LS type. It must be entered in the form of an IP address.    When the link state advertisement is describing a network, the link-state-id can take one of two forms:   The network's IP address (as in type 3 summary link advertisements and in autonomous system external link advertisements). A derived address obtained from the link state ID. (Note that masking a network links advertisement's link state ID with the network's subnet mask yields the network's IP address.)    When the link state advertisement is describing a router, the link state ID is always the described router's OSPF router ID.   When an autonomous system external advertisement (LS Type = 5) is describing a default route, its link state ID is set to Default Destination (0.0.0.0).    Cisco IOS IP Routing Protocols Command Reference, Release 12.4 (2005), at IP2R-613	<ul> <li>linkstate_id</li> <li>Network segment described by the LSA (dotted decimal notation).</li> <li>Value depends on the LSA type.</li> <li>— When the LSA describes a network, the linkstate-id argument is one of the following:</li> <li>The network IP address, as in Type 3 summary link advertisements and in autonomous system external link advertisements.</li> <li>A derived address obtained from the link state ID. Masking a network links the advertisement link state ID with the network subnet mask yielding the network IP address.</li> <li>— When the LSA describes a router, the link state ID is the OSPFv2 router ID of the router.</li> <li>— When an autonomous system external advertisement (Type 5) describes a default route, its link state ID is set to the default destination (0.0.0.0).</li> </ul> Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1404

Cisco			Arista	
area nssa	Translated Type-5 LSAs feature, use the router configuration mode. To remove command.  area ussa translate commanda information-originate [metric capability] [no-redistribution]  no area area-id ussa translate to	SA) and to configure the OSPF Forwarding Address Suppression in the area nessa translate command in router address family topology or the NSSA distinction from the area, use the no form of this area area-id assa translate type? [always] suppress-fa] [default-spf-metric] [metric-type ospf-link-state-type] [nssa-only]] [no-ext-ino-summary]  spe? [always] [suppress-fa] [default-information-originate to ospf-link-state-type] [nssa-only]] [no-ext-capability] [no-ext-capability] [no-ext-capability] [no-ext-capability]	Chapter 26 Open Shortest Path First - Version 3  area nssa translate type7 always (OSPFv  The area nssa translate type7 always command translates Typ Type-5 of LSAs.  The no area nssa translate type7 always command removes t  Platform all Command Mode Router-OSPF3 Configuration  Command Syntax  area area_id nssa translate type7 always no area_id nssa translate type7 always default area_id nssa translate type7 always  Parameters	pe-7 link-state advertisement (LSA) to
Syntax Description	area-id trauslate	Identifier for the stub area or NSSA. The identifier can be specified as either a decimal value or an IP address.  Translates one type of link-state advertisement (LSA) to another type of LSA. This keyword takes effect only on an NSSA Area Border Router (ABR) or an NSSA Autonomous System Boundary Router (ASBR).	• area_id area number.  Valid formats: integer <1 to 4294967295 > or dotted decimal <0.0.0.1 to 255.255.255.2  Area 0 (or 0.0.0.0) is not configurable; it is always normal.  Running-config stores value in dotted decimal notation.  Example  • This command configures an NSSA ABR router as a forced NSSA LSA translator. The router unconditionally translates Type-7 LSAs to Type-5 LSAs.  switch (config) #ipv6 router ospf 3  switch (config) router-ospf3) #area 3 ness translate type7 always	nal. n. d NSSA LSA translator. The NSSA ABR SAs.
Cisco IOS II	type7 always P Routing: OSPF Comm	(Required) Translates a Type-7 LSA to a Type-5 LSA. This keyword takes effect only on an NSSA ABR or an NSSA ASBR.  (Optional) Configures an NSSA ABR router as a forced NSSA LSA translator. The NSSA ABR router unconditionally translates Type-7 LSAs to Type-5 LSAs. You can configure the always keyword only in router configuration mode. not in router address family topology configuration mode.  mand Reference (2011), at 15	Arista Configuration Guide v. 4.13.6F (	4/14/2014), at 1451

		Cisco	Arista	
timers basic (RIP)			Chapter 28 Routing Information Protocol	RIP Commands
	configuration	uiting Information Protocol (RIP) network timers, use the <b>timers</b> basic command in router mode. To restore the default timers, use the <b>no</b> form of this command.  asic update invalid holddown flush s basic	timers basic (RIP)  The timers basic command configures the update interval, the for routes received and sent through RIP. The command requir  The update time is the interval between unsolicited route:  The expiration time is initialized when a route is established.	res value declaration of all values. responses. The default is 30 seconds.
Syntax Description	update invalid holddown	Rate (in seconds) at which updates are sent. This is the fundamental timing parameter of the routing protocol. The default is 30 seconds.  Interval of time (in seconds) after which a route is declared invalid; it should be at least three times the value of the <i>update</i> argument. A route becomes invalid when there is an absence of updates that refresh the route. The route then enters into a <i>holddown</i> state. The route is marked inaccessible and advertised as unreachable. However, the route is still used for forwarding packets. The default is 90 seconds.  Interval (in seconds) during which routing information regarding better paths is suppressed. It should be at least three times the value of the <i>update</i> argument. A route enters into a <i>holddown</i> state when an update packet is received that indicates the route is unreachable. The route is marked inaccessible and advertised as unreachable. However, the route is still used for forwarding packets. When holddown expires, routes advertised by other sources are accepted and the route is no longer inaccessible. The default is 180 seconds.	the route. If the specified period elapses from the last time route is marked as inaccessible and advertised as unreachal until the deletion time expires. The default value is 180 sec  The deletion time is initialized when the expiration time h deletion time, the route is no longer valid; however, it is retained that the route has been difficult time, the route is removed from the routing table. The default value is Configuration Guide v. 4.13.6F (4/14/	the route update was received, then the ole. However, the route forwards packets sonds.  as elapsed. On initialization of the ained in the routing table for a short time ropped. Upon expiration of the deletion ault is 120 seconds.
Cisco IOS II	flush P Routing	Amount of time (in seconds) that must pass before the route is removed from the routing table; the interval specified should be greater than the value of the <i>invalid</i> argument. If it is less than this sum, the proper <i>holddown</i> interval cannot elapse, which results in a new route being accepted before the <i>holddown</i> interval expires. The default is 240 seconds.  g Protocols Command Reference, Release 12.4		
(2005), at IR		g Frotocois Command Reference, Refease 12.4		

#### Cisco Arista

SNMP notifications can be sent as traps or inform requests. Traps are unreliable because the receiver does not send acknowledgments when it receives traps. The sender cannot determine if the traps were received. However, an SNMP entity that receives an inform request acknowledges the message with an SNMP response protocol data unit (PDU). If the sender never receives the response, the inform request can be sent again. Thus, informs are more likely than traps to reach their intended destination.

Compared to traps, informs consume more resources in the agent and in the network. Unlike a trap, which is discarded as soon as it is sent, an inform request must be held in memory until a response is received or the request times out. Also, traps are sent only once; an inform may be tried several times. The retries increase traffic and contribute to a higher overhead on the network.

If you do not enter an **snmp-server host** command, no notifications are sent. To configure the router to send SNMP notifications, you must enter at least one snmp-server host command. If you enter the

To enable multiple hosts, you must issue a separate snmp-server host command for each host. You can specify multiple notification types in the command for each host.

command with no optional keywords, all trap types are enabled for the host.

## 37.2.2 SNMP Notifications

SNMP notifications are messages, sent by the agent, to inform managers of an event or a network condition. A trap is an unsolicited notification. An inform (or inform request) is a trap that includes a request for a confirmation that the message is received. Events that a notification can indicate include improper user authentication, restart, and connection losses.

Traps are less reliable than informs because the receiver does not send any acknowledgment. However, traps are often preferred because informs consume more switch and network resources. A trap is sent only once and is discarded as soon as it is sent. An inform request remains in memory until a response is received or the request times out. An inform may be retried several times, increasing traffic and contributing to higher network overhead.

Table 37-2 lists the SNMP traps that the switch supports.

Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1891

# Cisco IOS IP Switching Command Reference (2011), at 542

Table 22	show ip bgp neighbors paths Field Descriptions		
Field		Description	
Address	Internal address where the path is stored.		
Refcount	Number of routes using that path.		

Field	Description
Metric	Multi Exit Discriminator (MED) metric for the
	path. The name of this metric for BGP versions 2 and 3 is INTER_AS.)
Path	Autonomous system path for that route, followed by the origin code for that route.

Cisco IOS Multiprotocol Label Switching Command Reference (2011), at 640-41

## show ip bgp paths

The show ip bgp paths command displays all BGP paths in the database.

Platform Command Mode EXEC

#### Command Syntax

show ip bgp paths [VRF INSTANCE]

#### Parameters

- VRF INSTANCE specifies VRF instances.
  - <no parameter> displays routing table for context-active VRF.
  - vrf vrf name displays routing table for the specified VRF.
  - vrf all displays routing table for all VRFs.
  - vrf default displays routing table for default VRF.

### Display Values

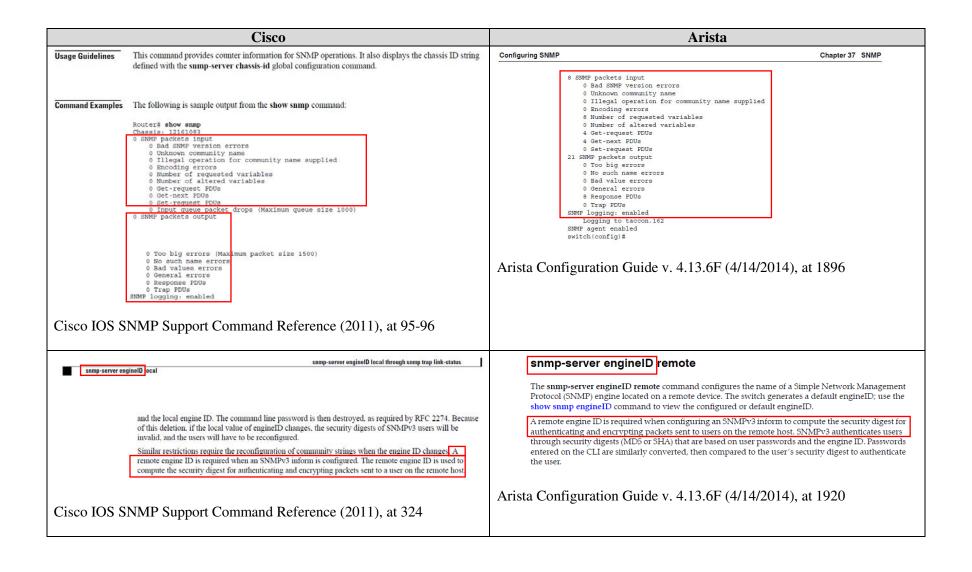
- Refcount: Number of routes using a listed path.
- Metric: The Multi Exit Discriminator (MED) metric for the path.
- Path: The autonomous system path for that route, followed by the origin code for that route.

The MED, also known as the external metric of a route, provides information to external neighbors about the preferred path into an AS with multiple entry points. Lower MED values are preferred.

Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1588

	Cisco	Arista		
Usage Guidelines	This command configures the HTTP server to request an X.509v3 certificate from the client in order to authenticate the client during the connection process.	protocol https certificate (API Management)		
	In the default connection and authentication process, the client requests a certificate from the HTTP server, but the server does not attempt to authenticate the client. Authenticating the client provides more security than server authentication by itself, but not all web clients may be configured for certificate authority (CA)	The <b>protocol https certificate</b> command configures the HTTP secure server to request an X.509 certificate from the client to configure the server certificate. The client (usually a web browser), in turn, has a public key that allows it to authenticate the certificate.		
	authentication.	The <b>no protocol https certificate</b> and <b>default protocol https certificate</b> commands restore default behavior by removing the <b>protocol https certificate</b> statement from <i>running-config</i> .		
Cisco IOS I	HTTP Services Command Reference (2011), at 49	Platform all Command Mode Mgmt-api Configuration		
		Command Syntax protocol https certificate no protocol https certificate default protocol https certificate		
		Related Commands		
		management api http-commands places the switch in Management-api configuration mode.  Frame Lea		
		Examples     These commands configures the HTTP server to request an X.509 certificate from the client in order to authenticate the client during the connection process.		
		<pre>switch(config) #management api http-commands switch(config-mgmt-api-http-cmds) #protocol https certificate switch(config-mgmt-api-http-cmds) #</pre>		
		Arista Configuration Guide v. 4.13.6F (4/14/2014), at 85		
Usage Guidelines	To configure a remote user, specify the IP address or port number for the remote SNMP agent of the device	Configuring the Group		
	where the user resides Also, before you configure remote users for a particular agent, configure the SNMP engine ID, using the snmp-server engineID command with the remote keyword. The remote agent's	An SNMP group is a table that maps SNMP users to SNMP views. The <b>snmp-server group</b> command configures a new SNMP group.		
Cisco IOS SNMP Support Command Reference (2011), at 380		Example     This command configures normal_one as an SNMPv3 group (authentication and encryption) that provides access to the all-items read view.		
		<pre>switch(config)#snmp-server group normal_one v3 priv read all-items switch(config)#</pre>		
		Configuring the User		
		An SNMP user is a member of an SNMP group. The snmp-server user command adds a new user to an SNMP group and configures that user's parameters. To configure a remote user, specify the IP address or port number of the device where the user's remote SNMP agent resides.		
		Arista Configuration Guide v. 4.13.6F (4/14/2014), at 1894		

Cisco			Arista		
		plays details such as IP address of the Network Manag rsion, and the port number of the NMS.	gement System	SNMP Commands	Chapter 37 SNMP
	To configure these details, use the sa			show snmp host	
Table 5 show:	Router# show snmp host Notification host: 10.2.28.6 udp-port: 162 type: inform ueer: public security model: v2c traps: 00001000.000000000 The table below describes the significant fields shown in the display.  show snmp host Field Descriptions			The show snmp host command displays the recipient (SNMP) notification operations. Details that the comm of the Network Management System (NMS), notificated Platform all Command Mode EXEC  Command Syntax  show snmp host  Field Descriptions  Notification host IP address of the host for whele udp-port port number.	nand displays include IP address and port number tion type, and SNMP version.
ield	F. (1)	scription		<ul> <li>type notification type.</li> <li>user access type of the user for which the notified</li> </ul>	fication is generated.
Notification host		plays the IP address of the host for which the ification is generated.		<ul> <li>security model SNMP version used to send no</li> <li>traps details of the notification generated.</li> </ul>	tifications.
udp-port	Disp	plays the port number.			
ype	Disp	plays the type of notification.		Arista Configuration Guide v. 4.13.6F	(4/14/2014), at 1908
user		plays the access type of the user for which the ification is generated.			
security model		plays the SNMP version used to send iffications.			
traps	Disp	plays details of the notification generated.			
Cisco IOS SI	p view	and Reference (July 2011), at 1	otocol (SNMP)	SNMP Commands  show snmp view	Chapter 37 SNMP
		e the show snmp viewcommand in privileged EXEC n	mode.	The show sump view command displays the family	name, storage type, and status of a Simple Network
lisco IOS SI	configuration and associated MIB. use		mode.	The show snmp view command displays the family Management Protocol (SNMP) configuration and the snmp-server view command.	
lisco IOS SI	configuration and associated MIB. use	e the show sump viewcommand in privileged EXEC r	mode.	Management Protocol (SNMP) configuration and th	



## Cisco Arista aaa group server radius aaa group server radius To group different RADIUS server hosts into distinct lists and distinct methods, enter the aaa group The aaa group server radius command enters the server-group-radius configuration mode for the server radius command in global configuration mode. To remove a group server from the configuration specified group name. The command creates the specified group if it was not previously created. list, enter the no form of this command. Commands are available to add servers to the group. aaa group server radius group-name A server group is a collection of servers that are associated with a single label. Subsequent authorization and authentication commands access all servers in a group by invoking the group name. Server group no aaa group server radius group-name members must be previously configured with a radius-server host command. The no aaa group server radius and default aaa group server radius commands delete the specified Cisco IOS Security Command Reference, Release 12.4 (2005), at SECserver group from running-config. Platform Command Mode Global Configuration Command Syntax aaa group server radius group name no aaa group server radius group\_name default aaa group server radius group name Arista Configuration Guide v. 4.13.6F (4/14/2014), at 217 aaa authentication dot1x Configuring an Authentication Method List for 802.1x To use 802.1x port security, specify an authentication method to be used to authenticate clients. The To specify one or more authentication, authorization, and accounting (AAA) methods for use on switch supports RADIUS authentication with 802.1x port security. To use RADIUS authentication with interfaces running IEEE 802.1X, use the aaa authentication dot1x command in global configuration 802.1x port security, you create an authentication method list for 802.1x and specify RADIUS as an mode. To disable authentication, use the no form of this command authentication method, then configure communication between the switch and RADIUS server. Example The aaa authentication dot1x command specifies one or more authentication, authorization, and Cisco IOS Security Command Reference, Release 12.4 (2005), at SECaccounting (AAA) methods for use on interfaces running IEEE 802.1X. The following example uses the aaa authentication dot1x command with RADIUS authentication switch# configure terminal switch(config)# aaa authentication dot1x default group radius Arista Configuration Guide v. 4.13.6F (4/14/2014), at 551

		Cisco	Arista	
To set an 802.1X port control value, use the dotlx port-control command in interface configuration mode. To disable the port-control value, use the no form of this command.  dotlx port-control {auto   force-authorized   force-unauthorized}}  no dotlx port-control {auto   force-authorized   force-unauthorized}			Example  This command configures Ethernet 1 to immediately commence functioning as authenticator ports.  switch(config)#interface ethernet 1 switch(config-if-Etl)#dotlx port-control auto switch(config-if-Etl)#  The dotlx port-control force-authorized command causes the port to transition to the authorized state without any authentication exchange required. The port transmits and receives normal traffic without 802.1X-based authentication of the client.	
Syntax Description  Cisco IOS S 457	process. The port state will be set to AUTO.    Disables 802.1X on the interface and causes the port to change to the authorized state without any authentication exchange required. The port transmits and receives normal traffic without 802.1X-based authentication of the client. The force-authorized keyword is the default.    Force-unauthorized   Denies all access through this interface by forcing the port to change to the unauthorized state, ignoring all attempts by the client to authenticate.    Cisco IOS Security Command Reference, Release 12.4 (2005), at SEC-		Example  This example of the command designates Ethernet 1 as an authenticator port that is to continue to forward packets.  Switch(config)#interface ethernet 1 Switch(config-if-Et1)#detlx port-control force-authorized Switch(config-if-Et1)#  Example  The dotlx port-control force-unauthorized command places the specified ports in the state of unauthorized, denying any access requests from users of the ports.  Switch(config-if-Et1)#detlx port-control force-authorized Switch(config-if-Et1)#detlx port-control force-authorized  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 552	
To set the maximum number of times the authenticator sends an Extensible Authentication Protocol (EAP) request/identity frame assuming that no response is received) to the client use the dot1x max-reauth-reqcommand in interface configuration mode. To set the maximum number of times to the default setting of 2, use the no form of this command.  dot1x max-reauth-req number no dot1x max-reauth-req  Cisco IOS Security Command Reference: Commands D to L (2011), at 164			In 3.5 Setting the Maximum Number of Times the Authenticator Sends EAP Request  The Hotlx max-reauth-req command sets the maximum number of times that the switch restarts the authentication process before a port changes to the unauthorized state.  Example  These commands set the maximum number of times the authenticator sends an Extensible Authentication Protocol (EAP) request/identity frame to the client.  Switch(config)#interface ethernet 1 Switch(config)#if-Etl)#dotlx max-reauth-req 4 Switch(config-if-Etl)#  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 553	

		Cisco	Arista
dot1x pae  Syntax Description  Cisco IOS So			The dot1x pae authenticator command sets the Port Access Entity (PAE) type. The interface acts only as an authenticator and will not respond to any messages meant for a supplicant.  The no dot1x pae authenticator and default dot1x pae authenticator commands restore the switch default by deleting the corresponding dot1x pae authenticator command from running-config.  Platform all Command Mode Interface-Ethernet Configuration Interface-Management Configuration  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 560
456	To set the number on network module is in To return to the definition of the dotal timeout		dot1x timeout quiet-period  The dot1x timeout quiet-period command sets the number of seconds that the switch remains in the quiet state following a failed authentication exchange with the client. The range is 1 to 65535 seconds; the default is 60.  When the switch cannot authenticate the client, the switch remains idle for a set period of time and then tries again. You can provide a faster response time to the user by entering a number smaller than the default.
Syntax Description  Cisco IOS Se 466	quiet-period secon	Specifies the time in seconds that the Ethernet switch network module remains in the quiet state following a failed authentication exchange with the client. The range is from 0 to 65535 seconds. The default is 60 seconds.  The range is from 0 to 65535 seconds. The default is 60 seconds.  The range is from 0 to 65535 seconds. The default is 60 seconds.	The no dot1x timeout quiet-period and default dot1x timeout quiet-period commands restore the default advertisement interval of 60 seconds by removing the corresponding dot1x timeout quiet-period command from running-config.  Platform all Command Mode Interface-Ethernet Configuration Interface-Management Configuration
			Arista Configuration Guide v. 4.13.6F (4/14/2014), at 563

#### Cisco Arista Usage Guidelines The security passwords min-length command provides enhanced security access to the router by password minimum length (Security Management) allowing you to specify a minimum password length, eliminating common passwords that are prevalent on most networks, such as "lab" and "cisco." This command affects user passwords, enable passwords The password minimum length command provides enhanced security access to the switch by allowing and secrets, and line passwords. After this command is enabled, any password that is less than the specified length will fail. you to specify a minimum password length, eliminating common passwords that are prevalent on most networks. This command affects user passwords, enable passwords and secrets, and line passwords. After this command is enabled, any password that is less than the specified length will fail. Cisco IOS Security Command Reference, Release 12.4 (2005), at SEC-Applicable CC Requirements: The switch settings for secure passwords can be found under secure preparation. The password minimum length should be 15 characters and SHA-512 should be used as 943 the hashing mechanism for all locally stored passwords. Arista Configuration Guide v. 4.13.6F (4/14/2014), at 152 Command Examples This example shows the output from the show port-security command when you do not enter any options: Example These commands enable MAC security on Ethernet interface 7, set the maximum number of Router# show port-security assigned MAC addresses to 2, assigns two static MAC addresses to the interface, and clears the Action dynamic MAC addresses for the interface. (Count) (Count) switch(config)#interface ethernet 7 switch(config-if-Et7) #switchport port-security Pa5/1 switch(config-if-Et7)#switchport port-security maximum 2 Fa5/5 15 Restrict Protect switch(config-if-Et7)#exit switch(config) #mac address-table static 0034.24c2.8f11 vlan 10 interface ethernet 7 switch(config) #mac address-table static 4464.842d.17ce vlan 10 interface ethernet 7 Total Addresses in System: 21 Max Addresses limit in System: 128 switch(config)#clear mac address-table dynamic interface ethernet 7 switch(config) #show port-security MaxSecureAddr CurrentAddr SecurityViolation Security Action Secure Port (Count) (Count) (Count) Cisco IOS Security Command Reference Commands S to Z (July 2011), Et7 2 2 0 Shutdown at 692 Arista Configuration Guide v. 4.13.6F (4/14/2014), at 624

	Cisco	Arista
Command Modes	PTP clock configuration (config-ptp-clk)	ptp priority1
Command History	Release Modification 15.0(1)S This command was introduced.	The ptp priority1 command configures the priority1 value to use when advertising the clock. This value overrides the default criteria for best master clock selection. Lower values take precedence. The range is from 0 to 255. To remove PTP settings, use the no form of this command.  Platform FM6000 Command Mode Global Configuration
Usage Guidelines	Slave devices use the priority1 value when selecting a master clock. The priority1 value has precedence over the priority2 value.	Command Syntax  ptp priority1 priority_rate  no ptp priority1  default ptp priority1
Cisco IOS Ii (2011), at 10	nterface and Hardware Component Command Reference 018	Parameters  • priority_rate The value to override the default criteria (clock quality, clock class, etc.) for best master clock selection. Lower values take precedence. Value ranges from 0 to 255. The default is 128.  Examples  • This command configures the preference level for a clock slave devices use the priority1 value when selecting a master clock.
		Arista Configuration Guide v. 4.13.6F (4/14/2014), at 318

	Cisco	Arista
service se	To enable visible sequence numbering of system logging messages, use the service sequence-numbers command in global configuration mode. To disable visible sequence numbering of logging messages, use the no form of this command.  service sequence-numbers  no service sequence-numbers	The service sequence-numbers command enables visible sequence numbering of system logging messages. Each system status messages logged in the system logging process have a sequence reference number applied. This command makes that number visible by displaying it with the message.  The no service sequence-numbers and default service sequence-numbers commands disable visible sequence numbering of system logging messages by removing the service sequence-numbers command from running-config.
Syntax Description	This command has no arguments or keywords.	Arista Configuration Guide v. 4.13.6F (4/14/2014), at 380
Defaults	Disabled.	
Command Modes	Global configuration	
Command History	Release Modification	
	12.0 This command was introduced.	
Usage Guidelines  Cisco IOS (	Each system status messages logged in the system logging process have a sequence reference number applied. This command makes that number visible by displaying it with the message. The sequence number is displayed as the first part of the system status message. See the description of the logging commands for information on displaying logging messages.  Configuration Fundamentals Command Reference Release	
	5), at CF-472	

		Cisco	Arista
	function is particularly use To change the number of claimstory size line configure The history command ena a prior setting, with the de The show history EXEC claimstory buffer the command history buffer Table 34 History Ke Key(s)  Ctrl-P or Up Arrow  To change the number of command to the command the com	bles the history function with the last buffer size specified or, if there was not fault of ten lines. The no history command disables the history function.  command will list the commands you have entered, but you can also use your faul commands. Table 34 lists the keys you can use to recall commands from er.  cys  Functions  Recalls commands in the history buffer in a backward sequence, beginning with the most recent command. Repeat the key sequence to recall successively older commands.  Returns to more recent commands in the history buffer after	3.2.4 History Substitution Keystrokes  The history buffer retains the last 20 entered commands. History substitution keystrokes that access previously entered commands include:  • Ctrl-P or the Up Arrow key: Recalls history buffer commands, beginning with the most recent command. Repeat the key sequence to recall older commands.  • Ctrl-N or the Down Arrow key: Returns to more recent commands after using the Ctrl-P or the Larrow. Repeat the key sequence to recall more recent commands.  The show history command in Privileged EXEC mode displays the history buffer contents.  **switch#show history** en config exit show history*  Arista Configuration Guide v. 4.13.6F (4/14/2014), at 103
		recalling commands with Ctrl-P or the Up Arrow. Repeat the key sequence to recall successively more recent commands.  The sequence with ANSI-compatible terminals.  The sequence of the sequen	Alista Collinguiation Guide v. 4.13.01° (4/14/2014), at 103
Cisco IOS Co		sequence to recall successively more recent commands.  y with ANSI-compatible terminals.	<ul> <li>3.2.3 Cursor Movement Keystrokes</li> <li>EOS supports these cursor movement keystrokes:</li> <li>• Ctrl-B or the Left Arrow key: Moves the cursor back one character.</li> <li>• Ctrl-F or the Right Arrow key: Moves the cursor forward one character.</li> </ul>
Cisco IOS Co CF-237	onfiguration Fu	mdamentals Command Reference (2010), at  Moves the cursor one character to the left.  When you enter a command that extends beyond a single line, you can press the Left Arrow or Ctrl-B keys repeatedly to scroll back toward the system prompt and verify the beginning of the command	<ul> <li>3.2.3 Cursor Movement Keystrokes</li> <li>EOS supports these cursor movement keystrokes:</li> <li>Ctrl-B or the Left Arrow key: Moves the cursor back one character.</li> <li>Ctrl-F or the Right Arrow key: Moves the cursor forward one character.</li> <li>Ctrl-A: Moves the cursor to the beginning of the command line.</li> <li>Ctrl-E: Moves the cursor to the end of the command line.</li> </ul>
Cisco IOS Co CF-237  Left Arrow <sup>1</sup> or Ctrl-B  Right Arrow <sup>1</sup> or	onfiguration Fu	Moves the cursor one character to the left. When you enter a command that extends beyond a single line, you can press the Left Arrow or Ctrl-B keys repeatedly to scroll back toward the system prompt and verify the beginning of the command entry.	<ul> <li>3.2.3 Cursor Movement Keystrokes</li> <li>EOS supports these cursor movement keystrokes:</li> <li>Ctrl-B or the Left Arrow key: Moves the cursor back one character.</li> <li>Ctrl-F or the Right Arrow key: Moves the cursor forward one character.</li> <li>Ctrl-A: Moves the cursor to the beginning of the command line.</li> <li>Ctrl-E: Moves the cursor to the end of the command line.</li> <li>Esc-B: Moves the cursor back one word.</li> </ul>
Cisco IOS Co CF-237  Left Arrow <sup>1</sup> or Ctrl-B  Right Arrow <sup>1</sup> or Ctrl-F	Back character  Forward character	Moves the cursor one character to the left. When you enter a command that extends beyond a single line, you can press the Left Arrow or Ctrl-B keys repeatedly to scroll back toward the system prompt and verify the beginning of the command entry.  Moves the cursor one character to the left. When you enter a command that extends beyond a single line, you can press the Left Arrow or Ctrl-B keys repeatedly to scroll back toward the system prompt and verify the beginning of the command entry.  Moves the cursor one character to the right.	<ul> <li>3.2.3 Cursor Movement Keystrokes</li> <li>EOS supports these cursor movement keystrokes:</li> <li>Ctrl-B or the Left Arrow key: Moves the cursor back one character.</li> <li>Ctrl-F or the Right Arrow key: Moves the cursor forward one character.</li> <li>Ctrl-A: Moves the cursor to the beginning of the command line.</li> <li>Ctrl-E: Moves the cursor to the end of the command line.</li> </ul>
Cisco IOS Co CF-237  Left Arrow <sup>1</sup> or Ctrl-B  Right Arrow <sup>1</sup> or Ctrl-F Esc, B	Back character  Forward character  Back word	Moves the cursor one character to the left.  When you enter a command that extends beyond a single line, you can press the Left Arrow or Ctrl-B keys repeatedly to scroll back toward the system prompt and verify the beginning of the command entry.  Moves the cursor one character to the right.	<ul> <li>3.2.3 Cursor Movement Keystrokes</li> <li>EOS supports these cursor movement keystrokes:</li> <li>Ctrl-B or the Left Arrow key: Moves the cursor back one character.</li> <li>Ctrl-F or the Right Arrow key: Moves the cursor forward one character.</li> <li>Ctrl-A: Moves the cursor to the beginning of the command line.</li> <li>Ctrl-E: Moves the cursor to the end of the command line.</li> <li>Esc-B: Moves the cursor back one word.</li> </ul>

	Cisco	Parameters  • number specifies a channel group ID. Values range from 1 through 1000.  • LACP_MODE specifies the interface LACP mode. Values include:  — mode on Configures interface as a static port channel, disabling LACP. The switch does not verify or negotiate port channel membership with other switches.  — mode active Enables LACP on the interface in active negotiating state. The port initiates negotiations with other ports by sending LACP packets.  — mode passive Enables LACP on the interface in a passive negotiating state. The port responds to LACP packets but cannot start LACP negotiations.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 469
channel Mode passive active on Cisco NX-OS	Description  LACP mode that places a port into a passive negotiating state, in which the port responds to LACP packets that it receives but does not initiate LACP negotiation.  LACP mode that places a port into an active negotiating state in which the port initiates negotiations with other ports by sending LACP packets.  All static port channels, that is, that are not running LACP, remain in this mode. If you attempt to change the channel mode to active or passive before enabling LACP, the device returns an error message. You enable LACP on each channel by configuring the interface in that channel for the channel mode as either active or passive. When an LACP attempts to negotiate with an interface in the on state, it does not receive any LACP packets and becomes an individual link with that interface; it does not join the LACP channel group.  The default port-channel mode is on.	
To valuation dot1Q  To valuable IEEE 802.1Q encapsulation of traffic on a specified subinterface in a virtual LAN (VLAN), use the encapsulation dot1q command in subinterface configuration mode. To disable encapsulation, use the no form of this command.  encapsulation dot1Q vlan-id  no encapsulation dot1Q vlan-id		The encapsulation dot1q vlan command enables Layer 2 802.1Q encapsulation of traffic on a specified subinterface in a VLAN The default VLAN for all interfaces is VLAN 1.  The no encapsulation dot1q vlan and default encapsulation dot1q vlan commands restore the default VLAN to the configuration mode interface by removing the corresponding encapsulation dot1q vlan command from running-config.
Cisco NX-OS	S Interfaces Command Reference (2008), Release 4.0, at IF-8	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 774

Cisco	Arista
To change the native VLAN ID when the interface is in trunking mode, use the switchport trunk native vlan command. To return the native VLAN ID to VLAN I, use the no form of this command.  switchport trunk native vlan vlan-id no switchport trunk native vlan  Cisco NX-OS Interfaces Command Reference (2008), Release 4.0, at IF-35	The switchport trunk native vian command specifies the trunk mode native VLAN for the configuration mode interface. Interfaces in trunk mode associate untagged frames with the native VLAN. Trunk mode interfaces can also be configured to drop untagged frames. The default native VLAN for all interfaces is VLAN 1.  The no switchport trunk native vian and default switchport trunk native vian commands restore VLAN 1 as the trunk mode native VLAN to the configuration mode interface by removing the corresponding switchport trunk native vian command from running-config.  Platform all Command Mode Interface-Ethernet Configuration Interface-Port-channel Configuration Command Syntax  switchport trunk native vian VLAN_ID no switchport trunk native vian default switchport trunk native vian default switchport trunk native vian Aris  ta Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 800
Rapid per VLAN Spanning Tree Plus (Rapid PVST+) and Multiple Spanning Tree (MST) have built-in compatibility mechanisms that allow them to interact properly with other versions of IEEE spanning tree or other regions. For example, a bridge running Rapid PVST+ can send 802.1D bridge protocol data units (BPDUs) on one of its ports when it is connected to a legacy bridge An MST bridge can detect that a port is at the boundary of a region when it receives a legacy BPDU or an MST BPDU that is associated with a different region.  These mechanisms are not always able to revert to the most efficient mode. For example, a Rapid PVST+ bridge that is designated for a legacy 802.1D bridge stays in 802.1D mode even after the legacy bridge has been removed from the link. Similarly, an MST port assumes that it is a boundary port when the bridges to which it is connected have joined the same region.  To force the MST port to renegotiate with the neighbors, enter the clear spanning-tree detected-protocol command.  If you enter the clear spanning-tree detected-protocol command with no arguments, the command is applied to every port of the device.  This command does not require a license.  Cisco NX-OS Layer 2 Switching Command Reference (2008), Release 4.0, at L2-5	20.2.1.4 Version Interoperability  A network can contain switches running different spanning tree versions. The common spanning tree (CST) is a single forwarding path the switch calculates for STP RSTE MSTE and Rapid-PVST topologies in networks containing multiple spanning tree variations.  In multi-instance topologies, the following instances correspond to the CST:  Rapid-PVST VLAN 1  MST IST (instance 0)  RSTP and MSTP are compatible with other spanning tree versions:  An RSTP bridge sends 802.1D (original STP) BPDUs on ports connected to an STP bridge.  RSTP bridges operating in 802.1D mode remain in 802.1D mode even after all STP bridges are removed from their links.  An MST bridge can detect that a port is at a region bouhdary when it receives an STP BPDU or an MST BPDU from a different region.  MST ports assume they are boundary ports when the bridges to which they connect join the same region.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 953

Cisco	Arista
When you enable this BPDU Guard command globally, the command applies only to spanning tree edge ports. See spanning-tree port type edge bpduguard default for more information on the global command for BPDU Guard. However, when you enable this feature on an interface, it applies to that interface regardless of the spanning tree port type.  This command has three states:  • spanning-tree bpduguard enable—Unconditionally enables BPDU Guard on the interface.  • spanning-tree bpduguard disable—Unconditionally disables BPDU Guard on the interface.  • no spanning-tree bpduguard—Enables BPDU Guard on the interface if it is an operational spanning tree edge port and if the spanning-tree port type edge bpduguard default command is	The spanning-tree bpduguard interface configuration command controls BPDU guard on the configuration mode interface. This command takes precedence over the default setting configured by spanning-tree portfast bpduguard default.  • spanning-tree bpduguard enable enables BPDU guard on the interface. • spanning-tree bpduguard disable disables BPDU guard on the interface. • no spanning-tree bpduguard reverts the interface to the default BPDU guard setting.
Cisco NX-OS Layer 2 Switching Command Reference (2008), Release 4.0, at L2-31	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 968
Understanding Loop Guard  Loop Guard helps prevent bridging loops that could occur because of a unidirectional link failure on a point-to-point link.  Cisco NX-OS Layer 2 Switching Configuration Guide (2008), Release 4.0, at 7-6	20.3.3 Port Roles and Rapid Convergence  Spanning Tree provides the following options for controlling port configuration and operation:  • PortFast: Allows ports to skip the listening and learning states before entering forwarding state.  • Port Type and Link Type: Designates ports for rapid transitions to the forwarding state.  • Root Guard: Prevents a port from becoming root port or blocked port.  Loop Guard: Prevents loops resulting from a unidirectional link failure on a point-to-point link.  • Bridge Assurance: Prevents loops caused by unidirectional links or a malfunctioning switch.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 964
Bridge Assurance is enabled by default and can only be disabled globally. Also, Bridge Assurance can be enabled only on spanning tree network ports that are point-to-point links. Finally, both ends of the link must have Bridge Assurance enabled. If the device on one side of the link has Bridge Assurance enabled and the device on the other side either does not support Bridge Assurance or does not have this feature enabled, the connecting port is blocked.  Cisco NX-OS Layer 2 Switching Configuration Guide (2008), Release 4.0, at 7-3	Spanning-tree bridge assurance  The spanning-tree bridge assurance command enables bridge assurance on all ports with a port type of network. Bridge assurance protects against unidirectional link failure, other software failure, and devices that quit running a spanning tree algorithm.  Bridge assurance is available only on spanning tree network ports on point-to-point links. Both ends of the link must have bridge assurance enabled. If the device on one side of the link has bridge assurance enabled and the device on the other side either does not support bridge assurance or does not have it enabled, the bridge assurance enabled port is blocked.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1002
A regular expression is entered as part of a command and is a pattern made up of symbols, letters, and numbers that represent an input string for matching (or sometimes not matching). Matching the string to the specified pattern is called pattern matching.  Cisco NX-OS Unicast Routing Command Reference (2008), Release 4.0, at	3.2.6 Regular Expressions  A regular expression is pattern of symbols, letters, and numbers that represent an input string for matching an input string thered as a CLI parameter. The switch uses regular expression pattern matching in several BOF commands.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 106

	Cisco		Arista	
A-1				
\$	Matches the character or null string at the end of an input string.	123\$ matches 0123, but not 1234	^ (caret) matches the character or null string at the beginning of a string,  Example	
*	Matches zero or more sequences of the character preceding the asterisk. Also acts as a wildcard for matching any number of characters.	5* matches any occurrence of the number 5 including none	* (asterisk) matches zero or more sequences of character preceding the asterisk.  Example 12* matches 167, 1267, or 12267 it does not match 267  + (plus sign)	
+	Matches one or more sequences of the character preceding the plus sign.	8+ requires there to be at least one number 8 in the string to be matched	\$ (dollar sign) dollar sign matches the character or null string at the end of an input string.  Example read\$ matches bread read\$ but not read\$	
() []	Nest characters for matching. Separate endpoints of a range with a dash (-).	(17)* matches any number of the two-character string 17	[] (brackets) matches characters or a character range separated by a hyphen.  Example [0137abcr-y] matches 0, 1, 3,v it does not match 2, 9, m, z	
L	Concatenates constructs. Matches one of the characters or character patterns on either side of the vertical bar.	A(BIC)D matches ABD and ACD, but not AD, ABCD, ABBD, or ACCD	? (question mark) pattern matches zero or one instance. Entering Ctrl-V prior to the question mark prevents the CLI from interpreting ? as a help command.  Example x1?x matches xx and xIx	
_	Replaces a long regular expression list by matching a comma (,), left brace ({), right brace (}), the beginning of the input string, the end of the input string, or a space.	The characters _1300_ can match any of the following strings:  • ^1300\$  • ^1300space  • space1300  • {1300,  • ,1300,  • ,1300,  • ,1300,	(pipe) pattern matches character patterns on either side of bar.    Example   B(E   A)D matches BED and BAD. It does not match BD, BEAD, BEED, or EAD	
Cisco NX-C A-2	OS Unicast Routing Command Refe	rence (2008), Release 4.0, at	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 106	
The order for matching using the * or + character is longest construct first. Nested constructs are matched from the outside in. Concatenated constructs are matched beginning at the left side. If a regular expression can match two different parts of an input string, it will match the earliest part first.		d beginning at the left side. If a regular	The order for matching using the * or + character is longest construct first. Nested constructs are matched from the outside in. Concatenated constructs are matched beginning at the left side. If a regular expression can match two different parts of an input string, it matches the earliest part first.	
Cisco NX-OS Unicast Routing Command Reference (2008), Release 4.0, at A-3			Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 107	

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max-metric router-Isa (OSPF)			max-metric router-Isa (OSPFv2)
To configure the Open Shortest Path First (OSPF) protocol to advertise a maximum metric so that other		Shortest Path First (OSPF) protocol to advertise a maximum metric so that other	The max-metric router-lsa command allows the OSPF protocol to advertise a maximum metric so that other routers do not prefer the router as an intermediate hop in their SPF calculations.
	routers do not prefer the router as an intermediate hop in their shortest path first (SPF) calculations use the max-metric router-lsa command. To disable the advertisement of a maximum metric, use the no form of this command.		The <b>no max-metric router-Isa</b> and <b>default max-metric router-Isa</b> commands disable the advertisement of a maximum metric.
	max-metric rout	er-lsa [on-startup [seconds   wait-for bgp tag]]	Platform all
	no max-metric re	uter-lsa [on-startup [seconds   wait-for bgp tag]]	Command Mode Router-OSPF Configuration
Cisco NX-OS L3-272	S Unicast Rou	ting Command Reference (2008), Release 4.0, at	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1439
Syntax Description	on-startup	(Optional) Configures the router to advertise a maximum metric at startup.	on-startup wait-for-bgp
	seconds (Optional) Maximum metric (in seconds) that is advertised for the specified time interval. The configurable range is from 5 to 86400 seconds. The on-startup <5 to 86400 seconds.	Gateway Protocol (BGP) routing tables have converged or the default timer has expired. The default timer is 600 seconds.  — on-startup <5 to 86400> Sets the maximum metric temporarily after a reboot to originate router-LSAs with the max-metric value.	
	wait-for bgp tag	(Optional) Advertises a maximum metric until Border Gateway Protocol (BGP) routing tables have converged or the default timer has expired. The default timer is 600 seconds.	wait-for-bgp or an on-start time value is not included in no and default commands.
Cisco NX-OS L3-272	S Unicast Rou	ting Command Reference (2008), Release 4.0, at	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1439
The cluster-id command is used to assign a cluster ID to a route reflector when the cluster has one or more route reflectors. Multiple route reflectors are deployed in a cluster to increase redundancy and avoid a single point of failure. When multiple route reflectors are configured in a cluster, the same cluster ID is assigned to all route reflectors. This allows all route reflectors in the cluster to recognize updates from peers in the same cluster and reduces the number of updates that need to be stored in BGP routing tables.		oute reflectors are deployed in a cluster to increase redundancy When multiple route reflectors are configured in a cluster, the oute reflectors. This allows all route reflectors in the cluster to	When using route reflectors, an AS is divided into clusters. A cluster consists of one or more route reflectors and a group of clients to which they re-advertise route information. Multiple route reflectors can be configured in the same cluster of increase redundancy and avoid a single point of failure. Each route reflector has a cluster ID. If the cluster has a single route reflector, the cluster ID is its router ID. If a cluster has multiple rolter reflectors, a 4-byte cluster ID is assigned to all route reflectors in the cluster. All of them must be configured with the same cluster ID so that they can recognize updates from other route reflectors in the same cluster. The bgp cluster-id command configures the cluster ID in a cluster.
	uting tables.		with multiple route reflectors.

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Syntax Description	To adjust the Routing Information Protocol (RIP) network timers, use the timers basic command in router address-family configuration mode. To restore the default timers, use the no form of this command.  timers basic update invalid holddown flush no timers basic  update  Rate (in seconds) at which updates are sent. The default is 30 seconds.  Interval of time (in seconds) after which a route is declared invalid; it should be at least three times the value of the update argument. A route becomes invalid when no updates refresh the route. The route then enters into a holddown state where it is marked as inaccessible and advertised as unreachable. However, the route is still used to forward packets. The default is 180 seconds.  Unicast Routing Command Reference (2008), Release 4.0, at	timers basic command configures the update interval, the expiration time, and the deletion time for routes received and sent through RIP. The command requires value declaration of all values.  The update time is the interval between unsolicited route responses. The default is 30 seconds.  The expiration time is initialized when a route is established and any time an update is received for the route. If the specified period elapses from the last time the route update was received, then the route is marked as inaccessible and advertised as unreachable. However, the route forwards packets until the deletion time expires. The default value is 180 seconds.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1671
[m	ultiplier  o specify the number of Intermediate System-to-Intermediate System (IS-IS) hello packets a neighbor just miss before the router should declare the adjacency as down, use the isis hello-multiplier ommand in interface configuration mode. To restore the default value, use the no form of this command. isis hello-multiplier multiplier {level-1   level-2} no isis hello-multiplier {level-1   level-2}  Unicast Routing Command Reference (2008), Release 4.0, at	In the isis hello-multiplier command specifies the number of 15-15 hello packets a neighbor must miss before the device should declare the adjacency as down.  Each hello packet contains a hold time. The hold time informs the receiving devices how long to wait without seeing another hello from the sending device before considering the sending device down. The isis hello-multiplier command is used to calculate the hold time announced in hello packets by multiplying this number with the configured isis hello-interval.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1685
s A tt c	fou can use local Proxy ARP to enable a device to respond to ARP requests for IP addresses within a ubnet where normally no routing is required. When you enable local Proxy ARP, ARP responds to all tRP requests for IP addresses within the subnet and forwards all traffic between hosts in the subnet. Use his feature only on subnets where hosts are intentionally prevented from communicating directly by the onfiguration on the device to which they are connected.  Unicast Routing Configuration Guide (2008), Release 4.0, at	ip local-proxy-arp  The ip local-proxy-arp command enables local proxy ARP (Address Resolution Protocol) on the configuration mode interface. Local proxy ARP programs the switch to respond to ARP requests for IP addresses within a subnet where routing is not normally required. A typical local proxy arp application is supporting isolated private VLANs that communicate with each other by routing packets.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1276

#### Cisco Arista **IS-IS Description** 29.2 IS-IS Overview IS-IS sends a hello packet out every configured interface to discover IS-IS neighbor routers. The hello IS-IS sends a hello packet out every configured interface to discover IS-IS neighbor routers. The hello packet contains information, which the receiving interface uses to determine compatibility with the originating interface. Compatible interfaces form adjacencies, which update routing information in the packet contains information, such as the authentication, area, and supported protocols, which the link-state database through link-state update messages (LSPs). If the router does not receive an LSP receiving interface uses to determine compatibility with the originating interface. Compatible interfaces refresh before the end of the LSP lifetime, the device deletes the LSP from the database. form adjacencies, which update routing information in the link-state database through link-state update messages (LSPs). By default, the router sends a periodic LSP refresh every 10 minutes and the LSPs Terms of IS-IS Routing Protocol remain in the link-state database for 20 minutes (the LSP lifetime). If the router does not receive an LSP The following terms are used when configuring IS-IS. refresh before the end of the LSP lifetime, the router deletes the LSP from the database. . NET and System ID - Each IS-IS instance has an associated network entity title (NET). The NET The LSP interval must be less than the LSP lifetime or the LSPs time out before they are refreshed. consists of the IS-IS system ID, which uniquely identifies the IS-IS instance in the area and the area IS-IS Areas Designated Intermediate System – IS-IS uses a Designated Intermediate System (DIS) in broadcast networks to prevent each device from forming unnecessary links with every other device on the broadcast network. IS-IS devices send LSPs to the DIS, which manages all the link-state information You can design IS-IS networks as a single area that includes all routers in the network or as multiple for the broadcast network. You can configure the IS-IS priority that IS-IS uses to select the DIS in an areas that connect into a backbone or Level 2 area. Routers in a nonbackbone area are Level 1 routers which establish adjacencies within a local area (intra-area routing). Level 2 area routers establish IS-IS Areas - You can design IS-IS networks as a single area that includes all routers in the network adjacencies to other Level 2 routers and perform routing between Level 1 areas (inter-area routing). A or as multiple areas that connect into a backbone or Level 2 area. Routers in a nonbackbone area are router can have both Level 1 and Level 2 areas configured. These Level 1/Level 2 routers act as area Level 1 routers that establish adjacencies within a local area (intra-area routing). Level 2 area routers border routers which route information from the local area to the Level 2 backbone area (see Figure 8-1). establish adjacencies to other Level 2 routers and perform routing between Level 1 areas (inter-area Within a Level 1 area, routers know how to reach all other routers in that area. Between areas, routers routing). A router can have both Level 1 and Level 2 areas configured. know how to reach the area border router to get to the Level 2 area. The Level 2 routers know how to . IS-IS Instances - Arista supports only one instance of the IS-IS protocol that run on the same node. reach other area border routers and other Level 2 routers. Level 1/Level 2 routers straddle the boundary LSP - Link state packet (LSP) can switch link state information. LSPs fall into two types: Level 1 LSPs between two areas, routing traffic to and from the Level 2 backbone area. and Level 2 LSPs. Level 2 devices transmit Level 2 LSPs; Level-1 devices transmit Level 1 LSPs; Level 1-2 devices transmit both Level 2 LSPs and Level 1 LSPs. Each IS-IS instance in Cisco NX-OS supports either a single Level 1 or Level 2 area, or one of each. By default, all IS-IS instances automatically support Level 1 and Level 2 routing. · Hello packets - Hello packets, can establish and maintain neighbor relationships. · Overload Bit - IS-IS uses the overload bit to tell other devices not to use the local router to forward traffic but to continue routing traffic destined for that local router. Possible conditions for setting the overload bit the device is in a critical condition. Cisco NX-OS Unicast Routing Configuration Guide, Release 4.0, at 8-2 Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1674 PIM Register Messages Anycast-RP PIM Anycast-RP defines a single RP address that is configured on multiple routers. An anycast-RP set PIM register messages are unicast to the RP by designated routers (DRs) that are directly connected to consists of the routers configured with the same anycast-RP address. Anycast-RP provides redundancy multicast sources. The PIM register message has the following functions: protection and load balancing. The anycast-RP set supports all multicast groups. · To notify the RP that a source is actively sending to a multicast group. PIM register messages are unicast to the RP by designated routers (DRs) that are directly connected to . To deliver multicast packets sent by the source to the RP for delivery down the shared tree. multicast sources. The switch sends these messages and join-prune messages to the anycast-KP set member specified in the anycast-RP command. In a typical configuration, one command is required for The DR continues to send PIM register messages to the RP until it receives a Register-Stop message from each member of the anycast-RP set. the RP. The RP sends a Register-Stop message in either of the following cases: The PIM register message has the following functions: · The RP has no receivers for the multicast group being transmitted. Notify the RP that a source is actively sending to a multicast group. The RP has joined the SPT to the source but has not started receiving traffic from the source. Deliver multicast packets sent by the source to the RP for delivery down the shared tree. The DR continues sending PIM register messages to the RP until it receives a Register-Stop message from the RP. The RP sends a Register-Stop message in either of the following cases: Cisco NX-OS Multicast Routing Configuration Guide (2008), Release 4.0, The RP has no receivers for the multicast group being transmitted. at 3-7 The RP has joined the SPT to the source but has not started receiving traffic from the source.

The ip pim any cast-rp command configures the switch as a member of an any cast-RP set and establishes

Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1874

a communication link with another member of the set.

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If the supplicant is successfully authenticated (receives an Accept frame from the authentication server), the port state changes to authorized, and all frames from the authenticated supplican are allowed through the port. If the authentication fails, the port remains in the unauthorized state, but authentication can be retried. If the authentication server cannot be reached, the authenticator can retransmit the request. If no response is received from the server after the specified number of attempts, authentication fails, and the supplicant is not granted network access.  Cisco DCNM Security Configuration Guide (2008), Release 4.0, at 6-5	11.3.3 Designating Authenticator Ports  You have to designate ports as authenticator ports before you can configure their settings. There are three dottx port-control commands for designating authenticator ports. The command you use is determined by whether or not the switch is part of an active network.  If the switch is not part of an active network or is not forwarding traffic, you can use the dottx port-control auto command to designate the authenticator ports. This command designates ports such that they immediately begin to function as authenticator ports, blocking all traffic until supplicants log on to the RADIUS server.  If the client is successfully authenticated, the port state changes to authentized, and all frames from the authenticated client are allowed through the port. If the authentication fails, the port remains in the unauthorized state, but authentication can be retried. If the authentication server cannot be reached, the switch can retransmit the request. If no response is received from the server after the specified number of attempts, authentication fails, and network access is not granted.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 558
Changing Global 802.1X Authentication Timers  The following global 802.1X authentication timers are supported on the device:  Quiet-period timer—When the device cannot authenticate the supplicant, the device remains idle for a set period of time, and then tries again. It he quiet-period timer value determines the idle period. An authentication failure might occur because the supplicant provided an invalid password. You can provide a faster response time to the user by entering a number smaller than the default is 60 seconds. The range is from 1 to 65535.  Cisco DCNM Security Configuration Guide (2008), Release 4.0, at 6-14	dot1x timeout quiet-period  The dot1x timeout quiet-period command sets the number of seconds that the switch remains in the quiet state following a failed authentication exchange with the client. The range is 1 to 65535 seconds; the default is 60.  When the switch cannot authenticate the client, the switch remains idle for a set period of time and then tries again. You can provide a faster response time to the user by entering a number smaller than the default.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 569
Enabling Periodic Reauthentication for an Interface  You can enable periodic 802.1X reauthentication on an interface and specify how often it occurs. If you do not specify a time period before enabling reauthentication, the number of seconds between reauthentication [defaults to the global value.]	dot1x timeout reauth-period  The dot1x timeout reauth-period command specifies the time interval for reauthentication of clients on an authenticator port. Re-authentication must be enabled on a authenticator port for the timer to work.  If you do not specify a time period before enabling re-authentication, the number of seconds between

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If the supplicant is successfully authenticated (receives an Accept frame from the authentication server), the port state changes to authorized, and all frames from the authenticated supplicant are allowed through the port. If the authentication fails, the port remains in the unauthorized state, but authentication can be retried. If the authentication server cannot be reached, the authenticator can retransmit the request. If no response is received from the server after the specified number of attempts, authentication fails, and the supplicant is not granted network access.  Cisco NX-OS Security Configuration Guide (2008), Release 4.0, at 7-5	11.3.3 Designating Authenticator Ports  You have to designate ports as authenticator ports before you can configure their settings. There are three dotlx port-control commands for designating authenticator ports. The command you use is determined by whether or not the switch is part of an active network.  If the switch is not part of an active network or is not forwarding traffic, you can use the dotlx port-control auto command to designate the authenticator ports. This command designates ports such that they immediately begin to function as authenticator ports, blocking all traffic until supplicants log on to the RADIUS server.  If the client is successfully authenticated, the port state changes to authorized, and all frames from the authenticated client are allowed through the port. If the authentication fails, the port remains in the unauthorized state, but authentication can be retried. If the authentication server cannot be reached, the switch can retransmit the request. If no response is received from the server after the specified number of attempts, authentication fails, and network access is not granted.
	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 558
Changing Global 802.1X Authentication Timers  The following global 802.1X authentication timers are supported on the NX-OS device:  • Quiet-period timer—When the NX-OS device cannot authenticate the supplicant, the NX-OS device remains idle for a set period of time, and then tries again. The quiet-period timer value determine the idle period. An authentication failure might occur because the supplicant provided an invalid password You can provide a faster response time to the user by entering a number smaller than the default. The default is 60 seconds. The range is from 1 to 65535.	When the switch cannot authenticate the client, the switch remains idle for a set period of time and then tries again. You can provide a faster response time to the user by entering a number smaller than the
Cisco NX-OS Security Configuration Guide (2008), Release 4.0, at 7-18	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 569
To create a RADIUS server group and enter RADIUS server group configuration mode, use the ana group server radius command. To delete a RADIUS server group, use the no form of this command.  aaa group server radius group-name no aaa group server radius group-name  Cisco NX-OS Security Command Reference (2008), Release 4.0, at 17	The aaa group server radius command enters the server-group-radius configuration mode for the specified group name. The command creates the specified group if it was not previously created. Commands are available to add servers to the group.  A server group is a collection of servers that are associated with a single label. Subsequent authorization and authentication commands access all servers in a group by invoking the group name. Server group members must be previously configured with a radius-server host command.  The no aaa group server radius and default aaa group server radius commands delete the specified server group from running-config.  Platform all  Command Mode Global Configuration  Command Syntax  aaa group server radius group_name no aaa group server radius group_name default aaa group server radius group_name default aaa group server radius group_name
	Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 224

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Usage Guidelines  The 802.1X quiet-period timeout is the number of seconds that the switch remains in the quiet state following a failed authentication exchange with a supplicant. You must use the feature dot1x command before you configure 802.1X.  Cisco NX-OS Security Command Reference (2008), Release 4.0, at 119	The dot1x timeout quiet-period command sets the number of seconds that the switch remains in the quiet state following a failed authentication exchange with the client. The range is 1 to 00030 seconds; the default is 60.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 569
ip dhcp snooping information option  To enable the insertion and removal of option-82 information for DHCP packets, use the ip dhcp snooping information option command. To disable the insertion and removal of option-82 information, use the no form of this command.  ip dhcp snooping information option no ip dhcp snooping information option  Cisco NX-OS Security Command Reference (2008), Release 4.0, at 196	Command Syntax  ip dhcp snooping information option no ip dhcp snooping information option  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1270
SNMPv3 provides for both security models and security levels. A security model is an authentication strategy that is set up for a user and the role in which the user resides. A security level is the permitted level of security within a security model. A combination of a security model and a security level determines which security mechanism is employed when handling an SNMP packet.  Cisco NX-OS System Management Configuration Guide (2008), Release 4.0, at 7-2	SNMPv3 is a security model which defines an authentication strategy that is configured for a user and the group in which the user resides. A security level is the permitted level of security within the model. A combination of a security model and a security level determines the security mechanism employed to handle an SNMP packet.  Arista Configuration Guide v. 4.14.3F - Rev. 2 (10/2/14), at 1964